Hollard

li-RU)

OIPE

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/09/830,703 TIME: 11:51:43

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\1830703.raw

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58 gaagecatga gtgaggtggg aagtgtttte cagggttgtt gecaegeeet gggtaagtaa 1860

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,703 TIME: 11:51:43

DATE: 12/12/2001

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\I830703.raw

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62 aaccaagtga gaacctagga aagctaattg gatggcagac tgcttaaatc gcagggagga 2100
63 ctcagaagec aaacctactt cegttegttt cattatetge aactttagaa agaaatgate 2160
64 tttttttccc cctgaaaaga taacaaagtc tgcaatttgg tttggagtat tcctactgca 2220
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72 gcctagagct aaaaatcata tagaaatgat gttatcttgt ggtgtgagga aaggccagct 2700
73 ggcctaagtt cacacttttg teccagtgge ectagaetee acceageeag eteccaaaat 2760
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78 attettaaaa taacecaaaa gacaggeate cacagtgtgt gageatgaat cacageetge 3060
79 attgtgtgag tgtgaatagt gggataaaag tggatgtcag aagagtggaa atcaaacctc 3120
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92 tgatagtgtt tgtcaggttc aactccagct atggcttccc agtggaggtc gattctgaca 180
93 ccagcatctt gcagctcaag gaagtggttg ctaagcgaca gggggttcca gctgaccagc 240
94 tgcgtgtgat ttttgccggg aaggagette cgaateaeet gaeggtteaa aaetgtgaee 300
95 tggaacaaca gagtattgta cacatagtac agagaccacg gaggagaagt catgaaacaa 360
96 atgcatctgg aggggacgaa ccccagagca cctcagaggg ctccatatgg gagtccagga 420
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98 tcattctgga cacagacagt aagagggatt cagaagcagc cagaggtcca gcagttaaac 540
99 ccacctacaa caqctttttc atctactgca aaggcccctg ccacaaggtc cagcctggaa 600
100 ageteegagt teagtgtgge acetgeaaac aageaaceet cacettggee cagggeeeat 660
101 cttgctggga cgatgtctta attccaaacc ggatgagtgg tgagtgccag tctccagact 720
102 gccctqqaac cagagctgaa tttttcttta aatgtggagc acacccaacc tcagacaagg 780
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105 tocactgaac ettgttettt aggactgtge aataggtegt eaceteetae tgagaacaag 960
106 geagettetg gtetettggt tteettgett eeaaeggeag eattgaetgt acaecettea 1020
107 gtcctaccaa ccccattacc tggttgattt ctttaccgct tagcttctcc aagatgccta 1080
108 tttccacaca cagtttcttg tcttccccat ccccccatag gtttatgcgc atgagtaagc 1140
109 accepacete atgagtttgt gettetgata caagaettee tgggateece gettgageee 1200
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RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/09/830,703 TIME: 11:51:43

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\I830703.raw

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111 tettgggetg gtgagatgge teagtgggta agageaeeeg actgetette egaagteeag 1320
112 agttcaaaat cccagcaacc acatggtggc tcacaaccat ccgtaacaag atctgactcc 1380
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125 caaggaagtg gttgctaagc gacagggggt tecagetgac cagetgegtg tgatttttgc 240
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128 cgaaccccag agcacctcag agggctccat atgggagtcc aggagcttga cacgagtgga 420
129 cctgagcagc cataccctgc cggtggactc tgtggggctg gcggtcattc tggacacaga 480
130 caqtaaqaqq qattcaqaaq caqccaqaqq tccaqcaqtt aaacccacct acaacagctt 540
131 tttcatctac tgcaaaggcc cctgccacaa ggtccagcct ggaaagctcc gagttcagtg 600
132 tggcacctgc aaacaagcaa ccctcacctt ggcccagggc ccatcttgct gggacgatgt 660
133 cttaattcca aaccggatga gtggtgagtg ccagtctcca gactgccctg gaaccagagc 720
134 tqaatttttc tttaaatqtq qaqcacaccc aacctcaqac aaggacacgt cggtagcttt 780
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                                40
150 Glu Leu Pro Asn His Leu Thr Val Gln Asn Cys Asp Leu Glu Gln Gln
                            55
152 Ser Ile Val His Ile Val Gln Arg Pro Arg Arg Ser His Glu Thr
153 65
                                             75
154 Asn Ala Ser Gly Gly Asp Glu Pro Gln Ser Thr Ser Glu Gly Ser Ile
155
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156 Trp Glu Ser Arg Ser Leu Thr Arg Val Asp Leu Ser Ser His Thr Leu
                                    105
158 Pro Val Asp Ser Val Gly Leu Ala Val Ile Leu Asp Thr Asp Ser Lys
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159
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160 Arg Asp Ser Glu Ala Ala Arg Gly Pro Val Lys Pro Thr Tyr Asn Ser
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162 Phe Phe Ile Tyr Cys Lys Gly Pro Cys His Lys Val Gln Pro Gly Lys
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,703

DATE: 12/12/2001
TIME: 11:51:43

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\I830703.raw

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| 164 | Leu | Arg | Val | Gln | Cys | Gly | Thr | Cys | Lys | Gln | Ala | Thr | Leu | Thr | Leu | Ala |
| 165 | | | | | 165 | | | | | 170 | | | | | 175 | |
| 166 | Gln | Gly | Pro | Ser | Cys | Trp | Asp | Asp | Val | Leu | Ile | Pro | Asn | Arg | Met | Ser |
| 167 | | _ | | 180 | _ | | | | 185 | | | | | 190 | | |
| 168 | Glv | Glu | Cvs | Gln | Ser | Pro | Asp | Cys | Pro | Gly | Thr | Arq | Ala | Glu | Phe | Phe |
| 169 | 1 | | 195 | | | | - | 200 | | - | | | 205 | | | |
| | Phe | Lvs | Cvs | Glv | Ala | His | Pro | Thr | Ser | Asp | Lvs | Asp | Thr | Ser | Val | Ala |
| 171 | | 210 | 012 | 0-1 | | | 215 | | | | -1- | 220 | | | | |
| | T.e.ii | | T.eu | Tle | Thr | Ser | | Ara | Arg | Ser | Tle | | Cvs | Tle | Ala | Cvs |
| | 225 | 11511 | пси | 110 | 1111 | 230 | 11511 | 111 9 | 111 9 | 001 | 235 | 110 | $\circ_I \circ$ | *** | | 240 |
| | | 7 cn | Val | λκα | Sar | | Wal | T.Au | Val | Dho | | Cvc | Δan | Иiс | Δra | |
| 175 | 1111 | кар | Val | Arg | 245 | FIO | Val | цец | Val | 250 | GIII | Cys | HSII | 1113 | 255 | 1113 |
| | 1101 | T10 | Crra | T 011 | | Crra | Dho | Hia | T 011 | | Cvc | 370.1 | Πh.× | 7 ~~ | | 7 an |
| | val | ше | Cys | | ASP | Cys | Pne | птъ | Leu | тут | Cys | vai | 1111 | | ьец | ASII |
| 177 | _ | | a 1 | 260 | **. 7 | ** ' - | | | 265 | . | 01 | m | G | 270 | D | G |
| | Asp | Arg | | Pne | vaı | HIS | Asp | | Gln | Leu | GIA | туг | | ьеи | Pro | Cys |
| 179 | _ | | 275 | | | _ | _ | 280 | | _ | | _ | 285 | 1 | | _ |
| | Val | | GLY | Cys | Pro | Asn | | Leu | Ile | Lys | GIu | | His | His | Phe | Arg |
| 181 | | 290 | | | | _ | 295 | _ | | | _ | 300 | | _ | _ | |
| | | Leu | Gly | Glu | Glu | | Tyr | Thr | Arg | Tyr | | Gln | Tyr | Gly | Ala | |
| | 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| | Glu | Cys | Val | Leu | | Met | Gly | Gly | Val | | Cys | Pro | Arg | Pro | | Cys |
| 185 | | | | | 325 | | | | | 330 | | | | | 335 | |
| 186 | Gly | Ala | Gly | Leu | Leu | Pro | Glu | Gln | Gly | Gln | Arg | Lys | Val | Thr | Cys | Glu |
| 187 | | | | 340 | | | | | 345 | | | | | 350 | | |
| 188 | Gly | Gly | Asn | Gly | Leu | Gly | Cys | Gly | Phe | Val | Phe | Cys | Arg | Asp | Cys | Lys |
| 189 | | | 355 | | | | | 360 | | | | | 365 | | | |
| 190 | Glu | Ala | Tyr | His | Glu | Gly | Asp | Cys | Asp | Ser | Leu | Leu | Glu | Pro | Ser | Gly |
| 191 | | 370 | | | | | 375 | | | | | 380 | | | | |
| 192 | Ala | Thr | Ser | Gln | Ala | Tyr | Arg | Val | Asp | Lys | Arg | Ala | Ala | Glu | Gln | Ala |
| 193 | 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| 194 | Arg | Trp | Glu | Glu | Ala | Ser | Lys | Glu | Thr | Ile | Lys | Lys | Thr | Thr | Lys | Pro |
| 195 | | | | | 405 | | | | | 410 | | | | | 415 | |
| 196 | Cys | Pro | Arg | Cys | Asn | Val | Pro | Ile | Glu | Lys | Asn | Gly | Gly | Cys | Met | His |
| 197 | - | | - | 420 | | | | | 425 | | | | | 430 | | |
| 198 | Met | Lys | Cys | Pro | Gln | Pro | Gln | Cys | Lys | Leu | Glu | Trp | Cys | Trp | Asn | Cys |
| 199 | | - | 435 | | | | | 440 | • | | | - | 445 | - | | - |
| | Glv | Cvs | Glu | Trp | Asn | Arg | Ala | Cvs | Met | Glv | Asp | His | Trp | Phe | Asp | Val |
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| | <211> LENGTH: 262 | | | | | | | | | | | | | | | |
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| | <213> ORGANISM: Mus <400> SEQUENCE: 5 | | | | | | | | | | | | | | | |
| | | | | | | Δrσ | Pho | Acn | Ser | Ser | Tur | Glv | Phe | Pro | Val | Glu |
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| | | Acr | Sor | Men | _ | Ser | Tle | Leu | Gln | | Lve | Glu | Val | Va 1 | | T.vc |
| 212 | val | nsp | DET | 20 | TIIT | SET | TIG | ьeu | 25 | ьeu | пуз | GIU | v a I | 30 | пти | פעם |
| | λνα | C1 ~ | C1 | | Dro | 7. T ~ | N cr | Cln | | 7 ~~ | Wa l | Tla | Dho | | C117 | Larg |
| Z 1 4 | AIG | GTU | GTÅ | val | PIO | AId | ASP | GTII | Leu | Arg | val | тте | FIIG | AId | GTÀ | цуб |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/830,703

DATE: 12/12/2001
TIME: 11:51:43

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\1830703.raw

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| 217 | 010 | 50 | | | | | 55 | | | | | 60 | | | | |
| | Ser | | Val | His | Ile | Val | Gln | Arq | Pro | Arq | Arq | Arg | Ser | His | Glu | Thr |
| 219 | | | | | | 70 | | | | _ | 75 | | | | | 80 |
| | | Ala | Ser | Gly | Gly | Asp | Glu | Pro | Gln | Ser | Thr | Ser | Glu | Gly | Ser | Ile |
| 221 | | | | 1 | 85 | | | | | 90 | | | | _ | 95 | |
| | Trp | Glu | Ser | Arq | Ser | Leu | Thr | Arq | Val | Asp | Leu | Ser | Ser | His | Thr | Leu |
| 223 | 1 | | | 100 | | | | _ | 105 | - | | | | 110 | | |
| | Pro | Val | Asp | Ser | Val | Gly | Leu | Ala | Val | Ile | Leu | Asp | Thr | Asp | Ser | Lys |
| 225 | | | 115 | | | - | | 120 | | | | - | 125 | - | | _ |
| | Arq | Asp | Ser | Glu | Ala | Ala | Arg | Gly | Pro | Ala | Val | Lys | Pro | Thr | Tyr | Asn |
| 227 | , | 130 | | | | | 135 | - | | | | 140 | | | | |
| 228 | Ser | Phe | Phe | Ile | Tyr | Cys | Lys | Gly | Pro | Cys | His | Lys | Val | Gln | Pro | Gly |
| | 145 | | | | _ | 150 | _ | _ | | _ | 155 | _ | | | | 160 |
| 230 | Lys | Leu | Arg | Val | Gln | Cys | Gly | Thr | Cys | Lys | Gln | Ala | Thr | Leu | Thr | Leu |
| 231 | - | | _ | | 165 | _ | _ | | _ | 170 | | | | | 175 | |
| 232 | Ala | Gln | Gly | Pro | Ser | Cys | Trp | Asp | Asp | Val | Leu | Ile | Pro | Asn | Arg | Met |
| 233 | | | - | 180 | | - | _ | _ | 185 | | | | | 190 | | |
| 234 | Ser | Gly | Glu | Cys | Gln | Ser | Pro | Asp | Cys | Pro | Gly | Thr | Arg | Ala | Glu | Phe |
| 235 | | - | 195 | - | | | | 200 | | | | | 205 | | | |
| 236 | Phe | Phe | Lys | Cys | Gly | Ala | His | Pro | Thr | Ser | Asp | Lys | Asp | Thr | Ser | Val |
| 237 | | 210 | _ | _ | _ | | 215 | | | | | 220 | | | | |
| 238 | Ala | Leu | Asn | Leu | Ile | Thr | Ser | Asn | Arg | Arg | Ser | Ile | Pro | Cys | Ile | Ala |
| 239 | 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| 240 | Cys | Thr | Asp | Val | Ser | His | Leu | Pro | Leu | Ser | Ser | Gly | Ala | Ser | Val | Trp |
| 241 | | | | | 245 | | | | | 250 | | | | | 255 | |
| 242 | Thr | Arg | Pro | ${	t His}$ | Leu | His | | | | | | | | | | |
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| 246 | <210 | 0> SI | EQ II | D NO | : 6 | | | | | | | | | | | |
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| 249 | <213> ORGANISM: Mus musculus | | | | | | | | | | | | | | | |
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| 253 | | | | | 5 | | | | | 10 | | | _ | _ | 15 | |
| | Val | Asp | Ser | - | Thr | Ser | Ile | Leu | | Leu | Lys | Glu | Val | | Ala | Lys |
| 255 | | | | 20 | | _ | | | 25 | | | | | 30 | _, | |
| | Arg | Gln | _ | Val | Pro | Ala | Asp | | Leu | Arg | Val | Ile | | Ala | Gly | Lys |
| 257 | | | 35 | | | | _ | 40 | | | | | 45 | | | |
| | Glu | | Pro | Asn | His | Leu | | Val | GIn | Asn | Cys | | Leu | Glu | GIn | Gln |
| 259 | _ | 50 | | | | | 55 | _ | _ | _ | | 60 | | ' | a 3 | m l |
| | | He | ٧al | His | тте | Val | GIn | Arg | Pro | Arg | | arg | ser | HIS | GLU | |
| 261 | | | _ | a 3 | <i>a</i> 3 | 70 | <i>a</i> : | D | 0.1 | G | 75 | 0 | a 1 | Q1 | G = | 80 |
| | Asn | Ala | Ser | GTY | _ | Asp | Glu | Pro | GIN | | Thr | ser | GLU | GTÄ | | тте |
| 263 | | | _ | _ | 85 | т. | m l | 3 | 17 1 | 90 | T ~ · · | 0 | 0.5= | *** - | 95 | т |
| | TT | | | | | | | 1 T CT | 1/21 | | 1 4311 | - 0 T | - OT | H 1 C | | 1.6-11 |
| | Trp | Glu | Ser | _ | ser | ьeu | TIII | AIG | | ASP | ьеu | 261 | DCI | | 1111 | Lea |
| 265 | _ | | | 100 | | Gly | | _ | 105 | | | | | 110 | | |

VERIFICATION SUMMARY

DATE: 12/12/2001

PATENT APPLICATION: US/09/830,703

TIME: 11:51:44

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\1830703.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

STATISTICS SUMMARY

DATE: 12/12/2001

PATENT APPLICATION: US/09/830,703

TIME: 11:51:44

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\12112001\1830703.raw

Application Serial Number: US/09/830,703

Alpha or Numeric: Numeric

Number of Corrections: 1

Application Class:

Application File Date: 12-12-2001

Art Unit: OIPE

Software Application: FastSeq Total Number of Sequences: 34 Total Nucleotides: 48922 Total Amino Acids: 3874 Number of Errors: 0 Number of Warnings: 0

MESSAGE SUMMARY

271 C: 1 (Current Filing Date differs)